

Europäisches Patentamt
European Patent Office
Office européen des brevets



(11) **EP 0 852 307 A3**

(12) **EUROPEAN PATENT APPLICATION**

(88) Date of publication A3:
21.07.1999 Bulletin 1999/29

(51) Int. Cl.⁶: **F16H 59/10, F16H 61/22**

(43) Date of publication A2:
08.07.1998 Bulletin 1998/28

(21) Application number: **97122668.3**

(22) Date of filing: **22.12.1997**

(84) Designated Contracting States:
**AT BE CH DE DK ES FI FR GB GR IE IT LI LU MC
NL PT SE**
Designated Extension States:
AL LT LV MK RO SI

(72) Inventor: **Ikegami, Yasuyuki**
Kosai-shi, Shizuoka 431-04 (JP)

(74) Representative:
**Grünecker, Kinkeldey,
Stockmair & Schwanhäuser
Anwaltssozietät
Maximilianstrasse 58
80538 München (DE)**

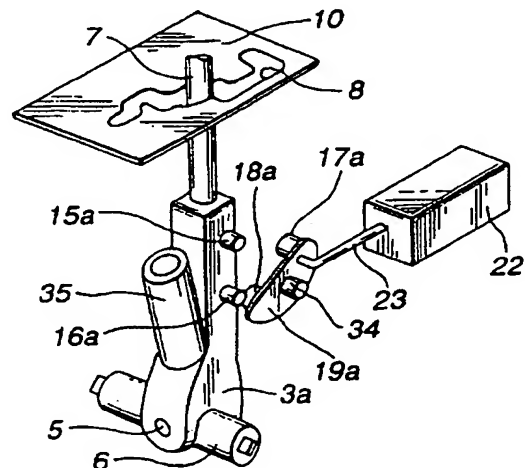
(30) Priority: **25.12.1996 JP 34470596**

(71) Applicant: **Fuji Kiko Co., Ltd.**
Tokyo 103 (JP)

(54) **Shift lock units for shift lever devices**

(57) A shift lock unit for a shift lever device includes a swing base (3a) rotatably supported in a casing and including a pair of longitudinally separated protrusions (15a, 16a), a rotary lock member (19a) rotatably supported in the casing and including parking and neutral engagements (17a, 18a) which can abut on the protrusions, respectively, a shift lever (7) arranged with the swing base for serving to select a desired range of a transmission, and an actuator (22) fixed to the casing for rotating the rotary lock member (19a) when the shift lever is moved to one of the parking and neutral ranges.

FIG.12



EP 0 852 307 A3



European Patent
Office

EUROPEAN SEARCH REPORT

Application Number
EP 97 12 2668

DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int.Cl.6)
A	PATENT ABSTRACTS OF JAPAN vol. 097, no. 004, 30 April 1997 & JP 08 334167 A (KOJIMA PRESS CO LTD), 17 December 1996 * abstract; figures *	1	F16H59/10 F16H61/22
A	EP 0 519 208 A (PORSCHE AG) 23 December 1992 * column 1, line 41 - column 2, line 33; figures 1,3 *	1	
D,A	JP 07 119813 A (TOKAI RIKI CO LTD;OTHERS: 01) 12 May 1995 & US 5 695 029 A (SHIMIZU ETSUO ET AL) 5 December 1997 * column 1, line 53 - column 2, line 50; figures 1,4,6,7 *	1	
			TECHNICAL FIELDS SEARCHED (Int.Cl.6)
			F16H
The present search report has been drawn up for all claims			
Place of search THE HAGUE		Date of completion of the search 26 May 1999	Examiner Daehnhardt, A
CATEGORY OF CITED DOCUMENTS X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons & : member of the same patent family, corresponding document			

EPO FORM 1503 03/92 (P4/C01)

**ANNEX TO THE EUROPEAN SEARCH REPORT
ON EUROPEAN PATENT APPLICATION NO.**

EP 97 12 2668

This annex lists the patent family members relating to the patent documents cited in the above-mentioned European search report. The members are as contained in the European Patent Office EDP file on
The European Patent Office is in no way liable for these particulars which are merely given for the purpose of information.

26-05-1999

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
EP 0519208 A	23-12-1992	DE 4120379 A	07-01-1993
		DE 59201225 D	02-03-1995
		JP 5187528 A	27-07-1993
		US 5379872 A	10-01-1995
JP 07119813 A	12-05-1995	US 5695029 A	09-12-1997

EPO FORM P0459

For more details about this annex : see Official Journal of the European Patent Office, No. 12/82